

Title (en)

Fastener for vehicle

Title (de)

Befestigungsvorrichtung für Fahrzeuge

Title (fr)

Dispositif de fixation pour véhicules automobiles

Publication

EP 1285843 A3 20030514 (EN)

Application

EP 01127521 A 20011117

Priority

KR 20010050709 A 20010822

Abstract (en)

[origin: EP1285843A2] An improved structure of a fastener for a vehicle to be used for fixing various parts to a vehicle body is provided, which includes a main body(30) to be fixed and supported in a fixing base(1) of a vehicle body, a locking element(40) to be fitted into the main body via an insertion hole(2a) of an object(2) for fixing the object(2) to the fixing base, a washer(50) to be fitted into the locking element to be connected to a top surface of the object(2), and an elastic element(60) such as a coil spring for closely contacting the washer fitted into the locking element to the top surface of the object and simultaneously maintaining the holding state between the main body(30) and the locking element(40), wherein an object may be fixed to a fixing base of the vehicle body regardless of a thickness of the object and the vibration, which is generated in a coupling portion of the object when the vehicle is driving, may be absorbed for preventing the abrasion of the coupling portion of the fastener. <IMAGE>

IPC 1-7

B62D 27/06; **B62D 29/04**

IPC 8 full level

F16B 5/12 (2006.01); **B62D 29/04** (2006.01); **F16B 2/00** (2006.01); **F16B 21/02** (2006.01); **F16B 37/04** (2006.01); **B60R 19/18** (2006.01); **B60R 19/24** (2006.01); **F16B 5/02** (2006.01); **F16B 13/12** (2006.01)

CPC (source: EP KR US)

B62D 29/048 (2013.01 - EP US); **F16B 2/00** (2013.01 - KR); **F16B 21/02** (2013.01 - EP US); **B60R 19/24** (2013.01 - EP US); **B60R 2019/1886** (2013.01 - EP US); **F16B 5/02** (2013.01 - EP US); **F16B 13/124** (2013.01 - EP US)

Citation (search report)

- [A] US 5211519 A 19930518 - SAITO KAZUO [JP]
- [A] GB 2074642 A 19811104 - HOUPLAIN D A
- [A] US 5228742 A 19930720 - JOHNSON ROGER E [US], et al

Cited by

EP3778397A4; EP2947267A1; CN103890414A; US9938832B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1285843 A2 20030226; **EP 1285843 A3 20030514**; **EP 1285843 B1 20041110**; CN 1227127 C 20051116; CN 1405041 A 20030326; DE 60107082 D1 20041216; DE 60107082 T2 20050317; JP 2003056522 A 20030226; KR 20030017724 A 20030304; MY 129204 A 20070330; US 2003039528 A1 20030227

DOCDB simple family (application)

EP 01127521 A 20011117; CN 01140176 A 20011128; DE 60107082 T 20011117; JP 2001352418 A 20011116; KR 20010050709 A 20010822; MY PI20015262 A 20011116; US 16093502 A 20020531